Applicants:

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In the Claims:

Please cancel Claims 1-75 without prejudice to applicants' right to pursue these claims in a later-filed continuation or divisional application.

Please add new Claims 76-81 as follows:

- 76. (new) A method of detecting the presence or absence of a mutation in the sequence of the *PKD2* gene, comprising the steps of:
 - (a) obtaining a polynucleotide sample from a subject;
- (b) comparing the polynucleotide sample to a reference wild-type *PKD2* sequence; and
- (c) determining the differences, if any, between the polynucleotide sample and the reference wild-type *PKD2* sequence, wherein the differences are mutations which comprise one or more deletion, insertion, point, or rearrangement mutations.
- 77. (new) The method of Claim 76, wherein the subject is an embryo, fetus, newborn, infant, or adult.
- 78. (new) The method of Claim 76, wherein the polynucleotide sample is DNA or RNA.
- 79. (new) A method of detecting the presence or absence of a mutation in the sequence of the *PKD2* gene, comprising the steps of:
 - (a) obtaining a polynucleotide sample from a subject; and
- (b) performing sequence analysis of the polynucleotide sample to detect the presence or absence of a mutation in the sequence of the *PKD2* gene of the subject,